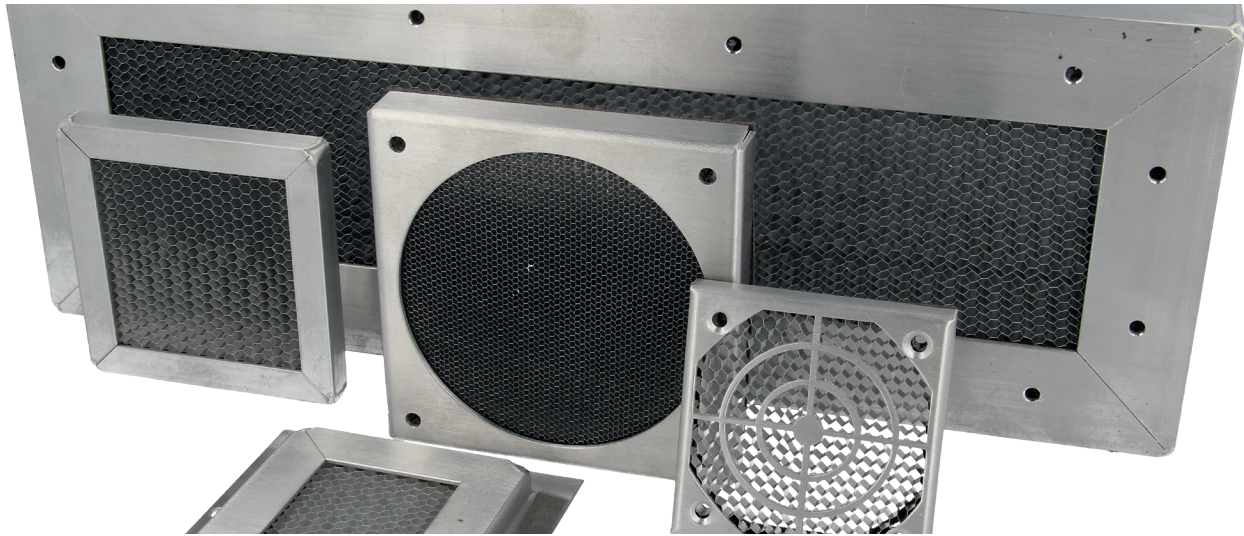


# HONEYCOMB VENTS 9500

EMI shielded ventilation panels for ventilation and heating



Honeycomb vents are used to shield openings for ventilation or acoustic/visual contact. We can make these vents according to your drawing within a few days, or you can use our standard range from stock.

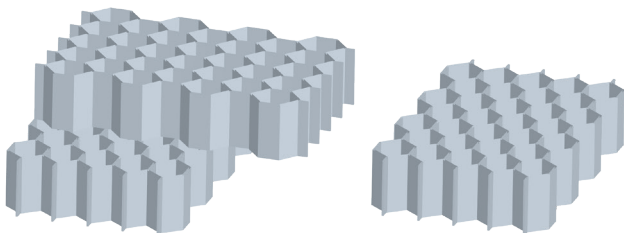
We can supply Honeycomb vents with frames, pre-drilled with fasteners, or with flow-drilled thread holes. The standard material is aluminum which can be given a nickel finish (or any other finish you choose).

If high shielding levels are required, the use of cross-cell honeycombs is recommended. These are constructed from multiple sections of 6.35 mm or 12.7 mm or 26 mm thick honeycombs within a single frame. The shielding performance will improve as airflow is decreased, but not eliminated.

For military applications we make a heavy hot-dip galvanized mild-steel version. Please contact us for more information.

Honeycombs are also frequently used as flow straighteners to create a laminar flow.

## STANDARD AND CROSS-CELL VERSIONS



Standard honeycomb & Cross-cell honeycomb  
(for higher shielding performance)

## BENEFITS

- Light-weight
- High shielding performance
- Low air-flow resistance
- Reduction of turbulence

## OPTIONS

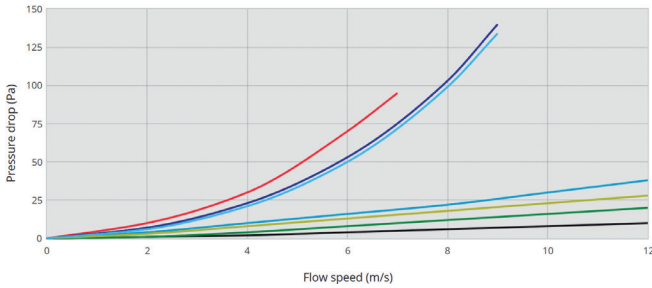
- Cross-cell honeycomb for extra high shielding performance
- Slant honeycomb 30°, 45°, 60° for outdoor rainproof applications
- 45° degrees is the most common implementation  
Please note, slant honeycombs are available on request
- Polyurethane filter for dust protection
- Kick plate for mechanical protection
- Stainless steel, mild steel or brass versions
- Cell sizes 1.6 mm, 3.2 mm, 6.4 mm, 9.5 mm, 12.7 mm, or 19 mm (standard 3.2 mm)
- Gaskets for firm connections

Approximately 95% of the honeycomb vents we produce are made to customer specifications.

## » HONEYCOMB VENTS 9500

### SHIELDING EFFECTIVENESS

#### 9500 series - Honeycomb ventilation panels



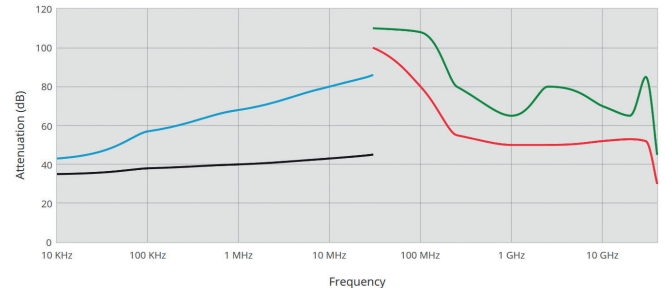
- 9520 - EMC Woven mesh ventilation panel
- 9500 - Honeycomb ventilation panel (1 layer 3.2 cell x 6.35 mm thick honeycomb)
- 9500 - Honeycomb ventilation panel (2 layers 3.2 cell x 3.2 mm thick honeycomb)
- 9500 - Honeycomb ventilation panel (1 layer 1.6 cell x 6.35 mm thick honeycomb)
- 9500 - Honeycomb ventilation panel (1 layer 3.2 cell x 12.7 mm thick honeycomb)
- 9500 - Honeycomb ventilation panel (1 layer 3.2 cell x 6.35 mm thick honeycomb + 1 layer 45° slant 3.2 cell x 6.35 mm thick honeycomb for water protection)
- 9500 - Honeycomb ventilation panel (1 layer 45° slant 3.2 cell x 6.35 mm thick honeycomb for water protection)

### SHIELDING PERFORMANCE\* (DB)

Frequency	Field	Single-layer 6.35mm thick honeycomb material	Cross-cell 6.35mm thick honeycomb material	Single-layer 12.7mm thick honeycomb material	Cross-cell 54mm thick honeycomb material
		Frames B, C, D, G, L	Frame H	Frames E, F	Frame K
200 kHz	H	39	71	78	85
100 MHz	E	80	105	100	110
500 MHz	P	55	93	55	95
2 GHz	P	52	94	96	98
10 GHz	P	61	82	80	90

These values were measured under laboratory conditions and with proper gasket material used. In other situations, results may differ. Please read our Guarantee.

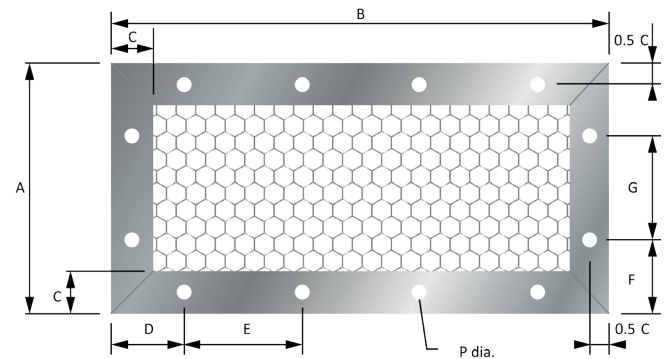
### AIRFLOW CHARACTERISTICS



- Honeycomb 400 x 400 mm single 3.2 mm cell 12.7 mm thick electric
- Honeycomb 400 x 400 mm single 3.2 mm cell 12.7 mm thick magnetic
- Honeycomb 400 x 400 mm cross 3.2 mm cell 26 mm thick electric
- Honeycomb 400 x 400 mm cross 3.2 mm cell 26 mm thick magnetic

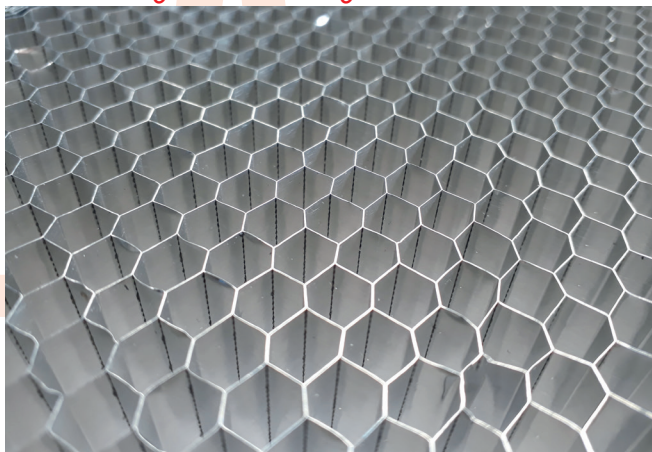
### STANDARD DIMENSIONS

Our Honeycomb ventilation panels are usually custom made for our client. However, some common dimensions are in stock. In the standard dimensions table below some common types of Honeycomb ventilation panels are specified to illustrate the required information. Hole diameter P is standard 3.5mm, with other dimensions possible on request. Also available with screw apertures or inserts.



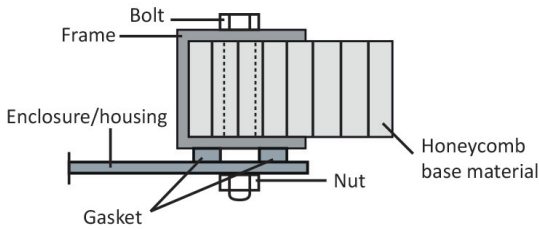
Outer dimensions		Mounting holes horizontal			Mounting holes vertical		
A	B	No	D	E	No	F	G
150	75	2	40	70	1	37.5	-
100	100	1	50	-	1	50	-
200	100	3	20	80	1	50	-
125	125	2	20	85	1	62.5	-
250	125	3	30	95	1	62.5	-
150	150	2	25	100	2	25	100
300	150	4	30	80	2	25	100
175	175	2	40	95	2	40	95
350	175	4	40	90	2	40	95
200	200	3	20	80	3	20	80
400	200	5	30	85	3	20	80
250	250	3	30	95	3	30	95
300	300	4	30	80	4	30	80
600	300	7	30	90	4	30	80

*any size, any shape according to drawing*

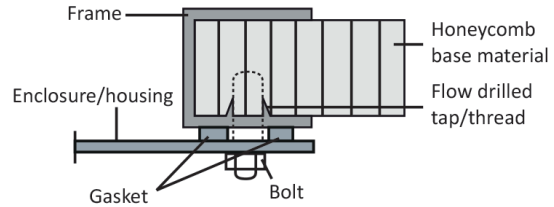


## » HONEYCOMB VENTS 9500

### MOUNTING OPTIONS



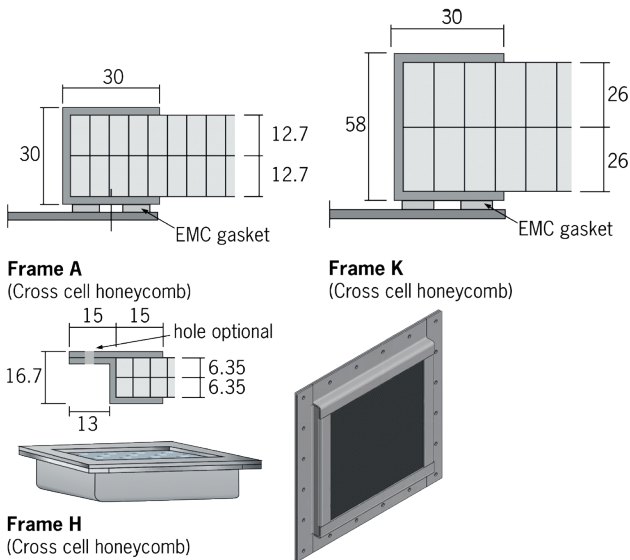
Option 1 : Through hole/bolt



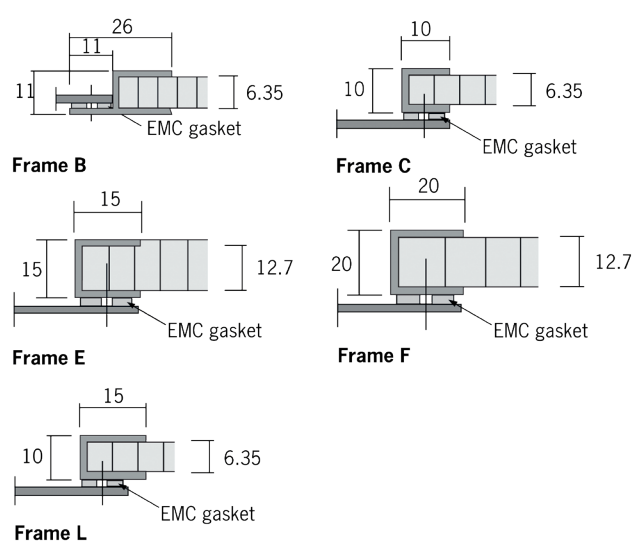
Option 2 : Flow-drilled tap/thread

### FRAME OPTIONS

#### Cross-cell honeycombs



#### Single-layer honeycombs



### GASKET MATERIAL

Our 9500 series framed Honeycomb ventilation panels are generally supplied with a 6800 series Amucor gasket.

This is an EMC gasket with an aluminum alloy. Suitable for most applications. However, due to galvanic corrosion for some applications, the Honeycombs can also be supplied with a 1200 series Metal knit gasket.

### ORDER EXAMPLE

Series	Height (mm)	Width (mm)	Frame	Drill pattern	Gasket material
9500	Specify the height dimension in mm	Specify the width dimension in mm	<b>A</b> : Frame A <b>B</b> : Frame B <b>C</b> : Frame C <b>D</b> : Frame D <b>E</b> : Frame E <b>F</b> : Frame F <b>G</b> : Frame G <b>H</b> : Frame H <b>K</b> : Frame K <b>L</b> : Frame L	<b>DS</b> : Standard drill pattern <b>DC</b> : Custom drill pattern <b>N</b> : No holes	<b>A</b> : Amucor (standard) <b>K</b> : Knitted wire mesh <b>N</b> : No gasket

#### \*Notice

Information supplied in these data sheets is based on independent and laboratory tests which Holland Shielding Systems BV, hereafter referred to as HSS believes to be reliable. HSS has no control over the design of customer's product which incorporates products, therefore it is the responsibility of the user to determine the suitability for his particular application and we recommend that the user make his own test to determine suitability.

The product described in this data sheet shall be of standard quality, however the products are sold without warranty of fitness for a particular purpose, either expressed or implied, except to the extent expressly stated on HSS invoice, quotation or order acknowledgment. HSS does not warrant that products described in this data sheet will be free of conflict with existing or future patents of third parties. All risks of lack of fitness, patent infringement and the like are assumed by the user.